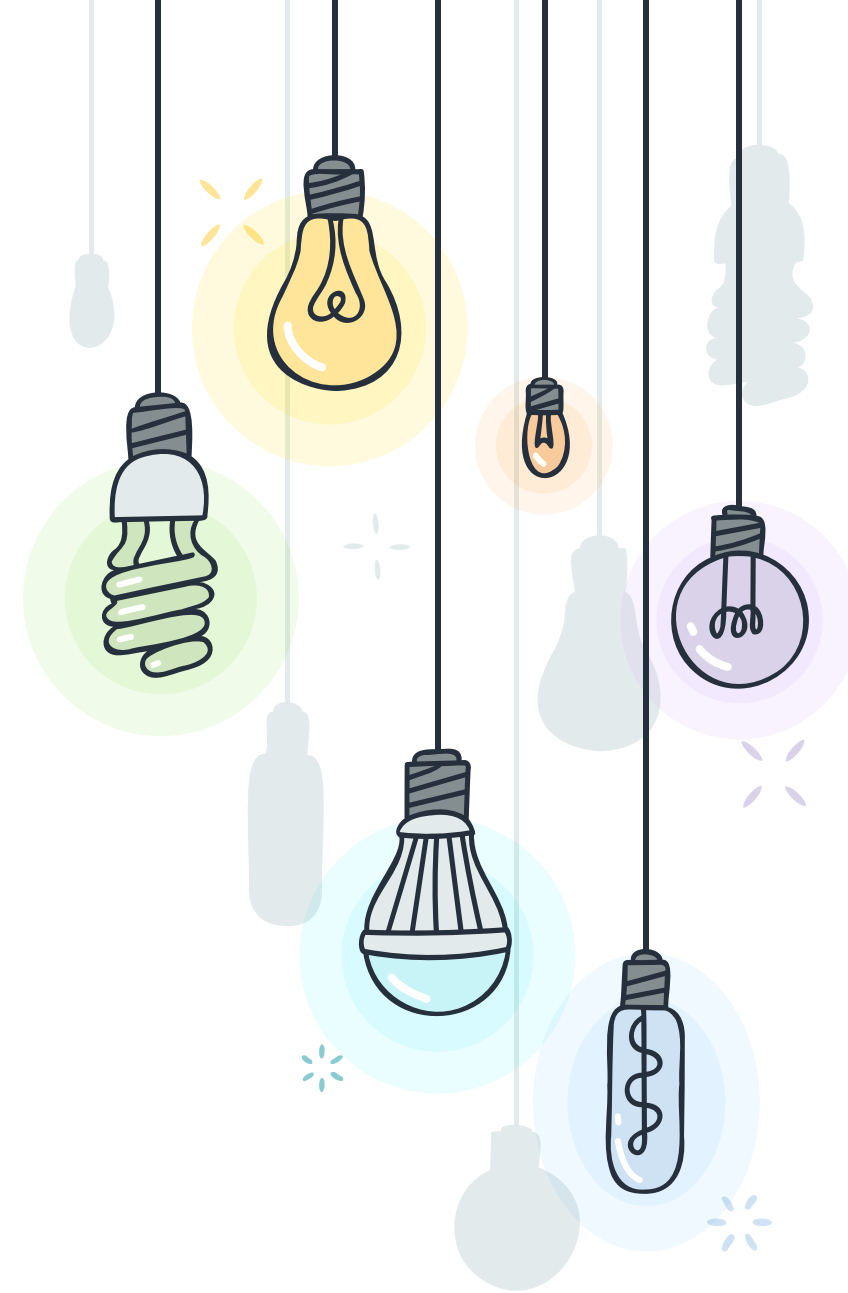


## \* FUN MATH THINKING TASK!

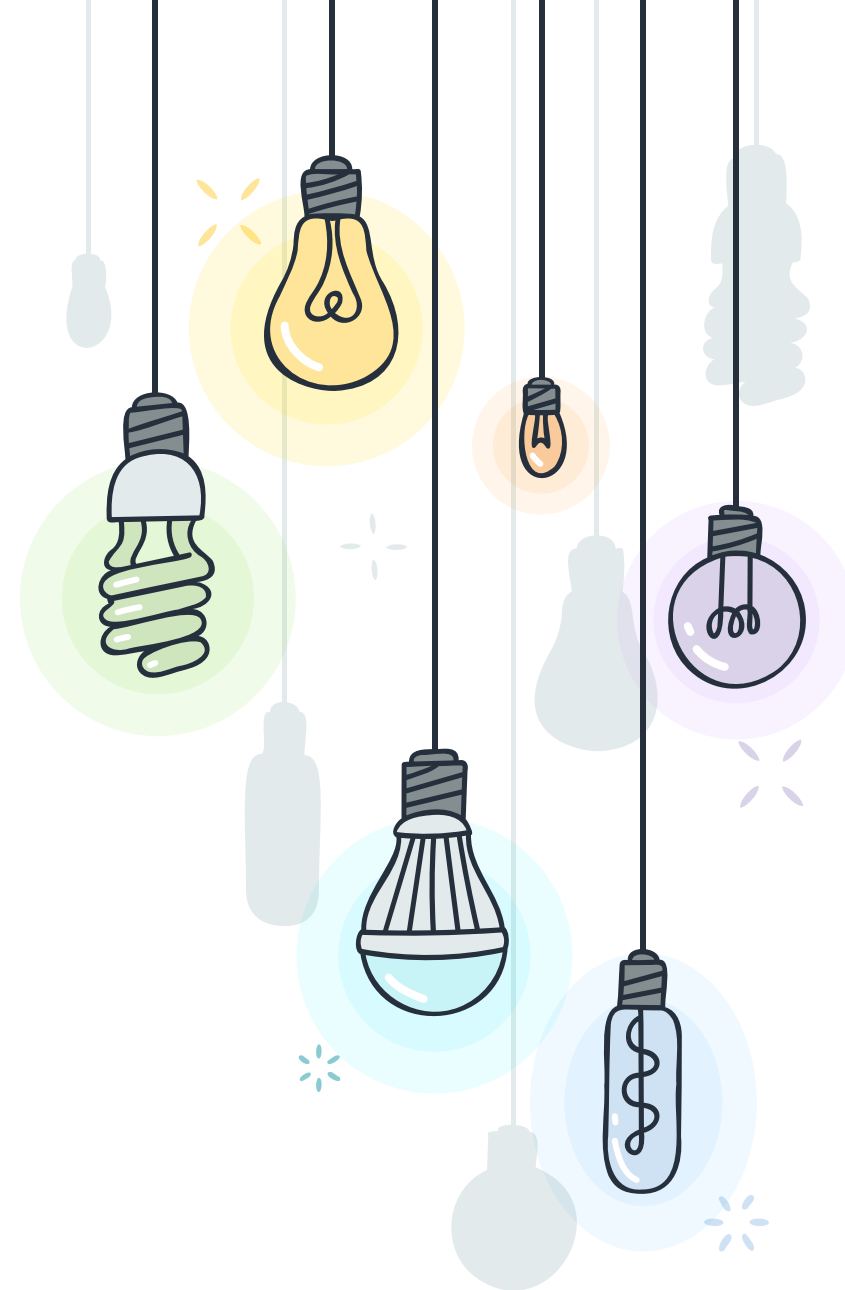
- + **Level 1:** Using each of the digits 2, 4, 6, and 8 exactly once, **find the two 2-digit numbers** that produce the **the smallest possible positive sum** when added.

$$\begin{array}{r} \square \square \\ + \square \square \\ \hline \end{array}$$



## \* ADDITIONAL TASKS:

- + **Level 2:** Still using 2, 4, 6, 8, find the largest possible positive difference when subtracted.
- + **Level 3:** Still using 2, 4, 6, 8, find the smallest possible positive difference when subtracted.
- + **Level 4:** Now using the digits 1-9, find the two 2-digit numbers that produce the smallest possible positive difference (without repeating any of the digits).
- + **Level 5:** Again using digits 1-9, find the two 3-digit numbers that produce the smallest possible positive difference (without repeating any of the digits).



# FIXED MINDSET

# MINDSET CHARACTERISTICS

# GROWTH MINDSET

SET - YOU HAVE WHAT YOU HAVE

## SKILLS+INTELLIGENCE

CAN BE GROWN AND DEVELOPED

HOW THEY LOOK  
PERFORMANCE FOCUS

## MAIN CONCERN

LEARNING / GETTING BETTER  
PROCESS FOCUS

SOMETHING YOU DO  
WHEN YOU'RE NOT GOOD

## EFFORT

AN IMPORTANT PART OF  
LEARNING

GIVE UP / CHECK OUT

## CHALLENGES

PERSEVERE / WORK THROUGH  
IT - SHOW MORE GRIT

TAKE IT PERSONAL  
GET DEFENSIVE

## FEEDBACK

LIKE IT / USE IT TO LEARN

HATE THEM / TRY  
TO AVOID MAKING THEM

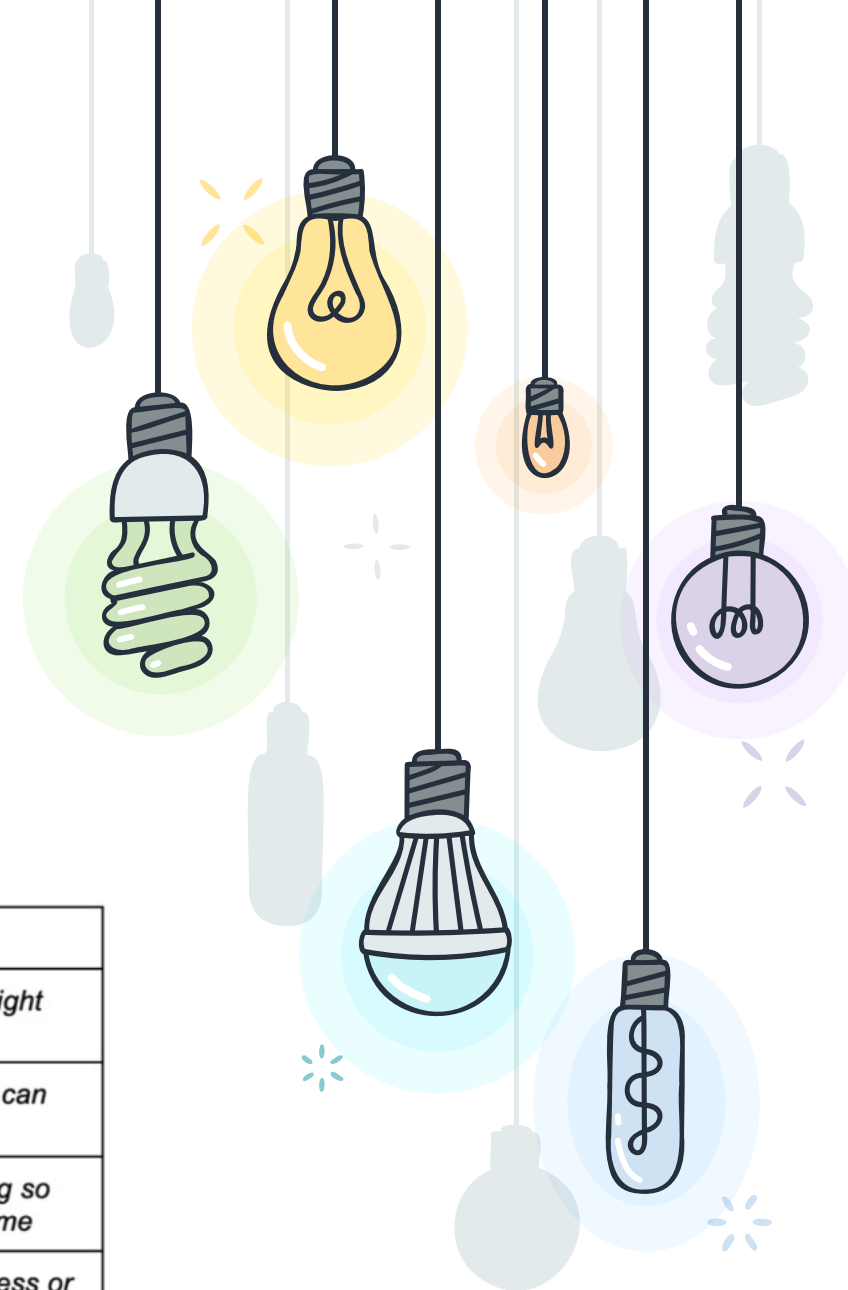
## MISTAKES

TREAT THEM AS A LEARNING  
OPPORTUNITY

[WWW.TRAINUGLY.COM](http://WWW.TRAINUGLY.COM)

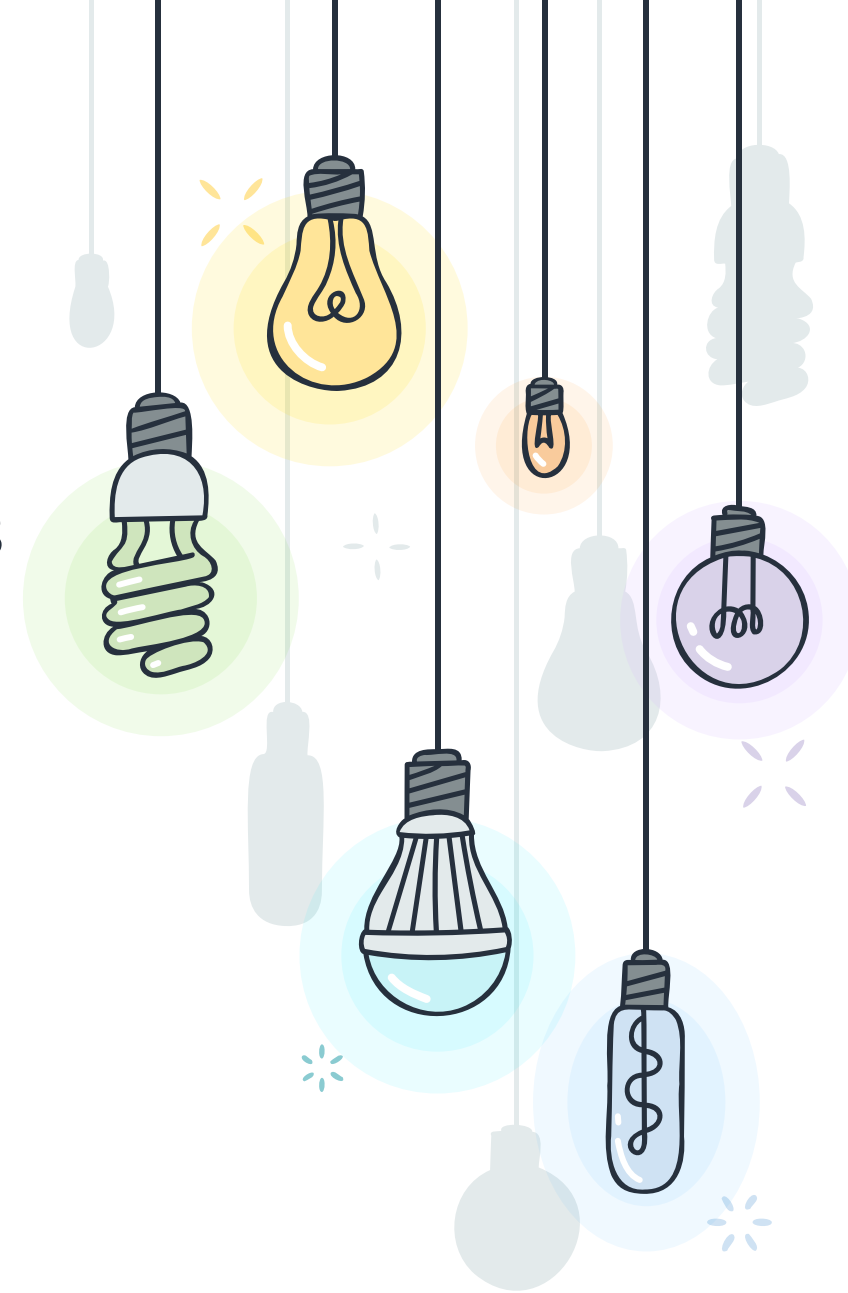
# GROWTH MINDSET

Fixed Mindset	Growth Mindset
This is too difficult for me	<i>I will need to work hard and find the right strategy to do this</i>
I won't try to do this because I know I can't	<i>It's ok if I'm not successful because I can learn from my efforts and try again</i>
This is too easy for me	<i>How can I make this more challenging so that the experience is worthwhile for me</i>
I'm afraid I might make a mistake	<i>There is no failure; there is only success or learning</i>



## \* GROWTH MINDSET VIDEOS

- + Video 1:  
<https://www.youtube.com/watch?v=75GFzikmRY0> (8 min)
- + Video 2:  
<https://www.youtube.com/watch?v=V7XjFTTrPl6o> (18 min)





Smallest sum

Level 1: 
$$\begin{array}{r} 26 \\ +48 \\ \hline 74 \end{array} \quad \text{OR} \quad \begin{array}{r} 28 \\ +46 \\ \hline 74 \end{array}$$
 Smallest tens

Level 2: 
$$\begin{array}{r} 86 \\ -24 \\ \hline 62 \end{array}$$
 largest 10s - smallest 10s

Level 3: Smallest difference next to each other  
10s - must opposite  
ones

$\begin{array}{r} 62 \\ -48 \\ \hline 14 \end{array}$	$\begin{array}{r} 46 \\ -28 \\ \hline 18 \end{array}$	$\begin{array}{r} 82 \\ -64 \\ \hline 18 \end{array}$
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~~Level 4: 
$$\begin{array}{r} 426 \\ -256 \\ \hline 170 \end{array}$$
   
$$\begin{array}{r} 824 \\ -694 \\ \hline 130 \end{array}$$
   
$$\begin{array}{r} 624 \\ -486 \\ \hline 138 \end{array}$$
   
$$\begin{array}{r} 246 \\ -248 \\ \hline 2 \end{array}$$~~

Level 5: 2 digits, 1-9, smallest difference

$\begin{array}{r} 23 \\ -12 \\ \hline 11 \end{array}$	$\begin{array}{r} 51 \\ -49 \\ \hline 2 \end{array}$	$\begin{array}{r} 41 \\ -39 \\ \hline 2 \end{array}$
---	--	--

outstanding  
10s +  
or + 1 in  
ones

Level 5: 3 digits, smallest difference

$\begin{array}{r} 412 \\ -398 \\ \hline 14 \end{array}$	$\begin{array}{r} 612 \\ -598 \\ \hline 14 \end{array}$
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